



EUROPEAN COMMISSION

DIRECTORATE-GENERAL III
INDUSTRY

Legislation and standardization and telematics networks
Standardization

M/079

Mandate to CEN and CENELEC for standardization in the field of machines

I. BACKGROUND

1. Legal Basis

This mandate relates to Council Directive 89/392/EEC of 14 June 1989 on the approximation of the laws of the Member States relating to machinery (OJ L 183 of 29 June 1989) as amended by Council Directive 91/368/EEC of 20 June 1991 and Council Directive 93/44 of 14 June 1993 (OJ L 175 of 19 July 1993). The Directive covers, by the definition of "machine" in Article 1, a large field of application. According to Article 3 of the Directive, machinery covered by this Directive must satisfy the essential health and safety requirements set out in annex 1 of the Directive before it can be placed on the market. Article 5 lays down that machinery shall be presumed to comply with the essential safety requirements when they are constructed in accordance with a national standard transposing a harmonized standard.

By way of exception, Article 1(5) of the Directive states that where the risks are mainly of electrical origin, machinery shall be covered exclusively by Council Directive 73/23/EEC, the so-called "Low Voltage Directive". However, in the course of discussions on the proposal to amend the Machinery Directive for the second time, the Council gave its full backing to efforts by the Commission to guarantee that, in so far as the harmonized standards within the meaning of the Low Voltage Directive affect machinery which may be regarded as falling within the scope of Article 1 (5), these standards should nevertheless cover pertinent non-electrical risks just as if the essential health and safety requirements of the Machinery Directive were applicable to such machinery.

2. Standardization activities relating to machinery have developed under two headings, those related to the Low Voltage Directive, and those related to the Machinery Directive.

3. *Links with the Low Voltage Directive*

In May 1993, a mandate (M/15) was issued to CEN and CENELEC asking them to clarify the position regarding European documents (European standards and harmonization documents) in the electrical sector related to machinery. In particular, they were asked to draw up a full and consistent programme detailing which harmonized standards within the meaning of the Low Voltage Directive should be retained, and which revised or supplemented, taking into account changes in the state of the art, notably with regard to non-electrical risks and the need for consistency in the handling of such risks. The response to this document, provided in January 1994 jointly by CEN and CENELEC, included two lists (A and B) of standards relevant to CEN and CENELEC which were to be taken into account within the framework of the application of the Machines Directive. These lists comprised four categories of standards grouped by the activities carried out in the standards bodies: Category I for CENELEC activities; Category II for parallel activities; Category III for duplicated activities; and Category IV for activities in CEN alone. List B grouped standards within these four categories which were to be aligned with the essential requirements of the Machines Directive.

4. *Activities related to the Machinery Directive*

In the past, separate standardization mandates were issued relating to machinery (CEN/13-88 addressed to CEN and CENELEC), relating to machines presenting hazards due to mobility of load lifting (BC/CEN/CLC/1-91) and to machinery presenting hazards due to the lifting and moving of persons (M/8). In addition, in March 1993 a separate standardization mandate was given to CEN and CENELEC concerning lifts (BC/CEN/3-92) on the basis of the proposed Directive relating to lifts, COM/92/35 final (OJ C62 of 11.03.92 and OJ C180 of 02.07.93).

The number of standards regarded as necessary for the proper functioning of these Directives was expected to be very large. Therefore, an appropriate examination of the standardization activities as a whole was felt to be necessary. In consequence, in September 1992 a programming mandate (CEN/CLC/16-91) was sent to CEN and CENELEC for the reconsideration of the work programme related to CEN/CLC/13-88) on safety of machinery.

5. *The structure of machinery standards*

CEN responded to mandate CEN/CLC/16-91 on 27 October 1993 with a programme of standards (involving CENELEC when appropriate), which includes the programme related to lifts covered by mandate BC/CEN/03-92. This programme is divided into categories, in order to avoid duplication and to

develop a method of enabling rapid production of standards and easy cross-reference between them.

As a result, a hierarchical structure of standardization for machinery has been set up consisting of:

Type A standards (fundamental safety standards) giving basic concepts, principles for design and general aspects applicable to all machinery and installations.

Type B standards (group safety standards) dealing with one aspect or one type of safety related device which can be used for a series of machines, appliances and installations.

This category is subdivided as follows:

- Type B1 standards on particular safety aspects (e.g. safety distances, surface temperature, noise)
- Type B2 standards on safety related devices (e.g. two-hand controls, interlocking devices, pressure sensitive devices, guards)

Type C standards (machinery safety standards) include detailed safety requirements for a particular machine or group of machines.

6. *Aim of this mandate*

The purpose of this mandate is to invite CEN and CENELEC, to draw up standards for use in connection with the Machinery Directive, as described in the scope of the Directive, on the basis of the programmes submitted in response to mandate CEN/CLC 16-91. It allows for the addition of relevant work items to the CEN and CENELEC programmes, for example to accommodate necessary changes that may become evident in the course of the work. CEN and CENELEC are required to notify any such changes or adaptations to the Commission, which will in its turn advise the Committee on Standards and Technical Regulations.

Standards for use in connection with the proposed Directive on Lifts, which were identified in the programme presented by CEN, are covered by mandate BC/CEN 03-92.

A parallel standardization mandate to CEN and CENELEC dealing with equipment falling under the scope of the Low Voltage Directive will cover the adjustment, and where appropriate the revision of existing and draft standards related to that Directive with the terms of the Machinery Directive (M 83).

II. DESCRIPTION OF THE MANDATED WORK

1. The Commission hereby requests CEN and CENELEC to draw up new standards, and, where appropriate, to adapt or revise existing standards, relating to machinery that are necessary for the operation of the Directive and which are capable of giving presumption of conformity with the essential safety requirements of the Directive. The standards shall cover both product related requirements and requirements of a horizontal nature, i.e., shall include standards of Types A, B and C as indicated in clause I.
2. Standards are to be drawn up on the basis of, but not limited to, the list of standards relevant to machinery submitted in response to the programming mandates CEN/CLC/16/91.
3. Where additional standards projects in the area of machinery are approved for addition to the work programme of CEN or CENELEC, or where, in elaborating the standards, it becomes evident that changes to the structure of the programme become necessary, CEN and CENELEC shall advise the Commission of any such necessary changes; the Commission will in its turn advise the Committee on Standards and Technical Regulations. In principle such new or amended work shall be covered by this mandate.
4. Standards drawn up under this mandate shall meet the requirements outlined in the earlier programming mandate. In particular, the criteria set out in II.2 of the programming mandate CEN/CLC/16-91 shall be respected, notably II.2 (c) on the criteria for mandated standards, II.2 (d) on the need for C-type standards, and II.2 (e) on the content of C-type standards. Co-operation between CEN and CENELEC shall be established and maintained as necessary.

III. EXECUTION OF THE REQUEST

1. CEN and CENELEC shall present to the Commission draft standards intended to be harmonized standards under the terms of the Machinery Directive. Where such standards are listed in the programme submitted in response to mandate CEN/CLC/16-91, the draft standards shall be presented to the Commission by the target dates specified in the programme. Where the draft standards arise from necessary changes to the structure of the programme as described in II.3 above, CEN and CENELEC shall present such standards by the target dates notified in accordance with III.3 below.
2. From the date of acceptance of this mandate, all standards and drafts intended to have the status of harmonized standards under the Machinery Directive shall be presented under the terms of this mandate.

3. The European Standards (EN) shall be adopted by the target dates specified. At these dates, the three linguistic versions (German, English, French) shall be available as well as the correct titles in the other Community languages. CEN and CENELEC shall notify the Commission of any further standards projects, with their target dates, which they approve for addition to their work programme, that may fall within the area of technology covered by this mandate.
4. The European standards adopted shall be transposed into national standards and differing national standards shall be withdrawn from the catalogues of the national standards bodies in the Member States within six months of their adoption.
5. Acceptance by CEN and CENELEC of this mandate starts the standstill period referred to in Article 7 of Council Directive 83/189/EEC of 28 March 1983 (OJ N° L 109 of 26 April 1983).

ANNEX A

Title page and contents list of the response to Mandate CEN/CLC/16/91.